Ricky Wang

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EDUCATION

Rensselaer Polytechnic Institute   Troy, NY
Bachelor of Science
> Major in Computer Science; Minors in Philosophy
> Relevant Coursework: Computer Science I; Data Structures; Foundations of Computer Science; Computer Organization; Introduction to Algorithms; Principles of Software; Programming Languages; Operating Systems; Software Design & Documentation; Network Security and Defense; RCOS; Biostatistics

WORK EXPERIENCE

New York City Parks Department   New York, NY
Lifeguard   June 2020 – Sep 2024
- Ensured the safety and well-being of patrons by diligently monitoring swimming activities and strictly enforcing pool regulations.
- Delivered prompt first aid and emergency assistance as needed, demonstrating a commitment to swift and effective response in critical situations.
- Maintained a secure environment by adhering to rigorous safety protocols and proactively identifying and mitigating potential hazards.

Empire Corner II   New York, NY
Crew/Assistant Manager   Jun 2019 – Sep 2024
- Elevated operational efficiency by managing customer interactions with a focus on quality service and professionalism.
- Streamlined daily business operations through proactive inventory management, ensuring seamless service continuity and preparedness.
- Enhanced customer satisfaction and retention by delivering prompt, courteous service, contributing to a welcoming and efficient atmosphere.

UNIVERSITY PROJECTS

RookCook Cookbook

https://github.com/RookCookCo/RookCook

RookCook is an innovative web application built with the MERN stack (MongoDB, Express.js, React, and Node.js) that personalizes recipe suggestions based on the ingredients and kitchen tools users have available. The platform leverages Firebase for user authentication, enabling seamless login and profile management. It features an interactive kitchen environment, built with HTML, CSS, and JavaScript, along with Docker containers to ensure scalable and efficient deployment. RookCook includes an advanced ingredient management system to streamline searches, supported by a robust search and filter function. Users can rate recipes, participate in discussion forums, and manage personalized profiles. Additionally, RookCook provides nutritional information to inform cooking choices, fostering a community-driven, efficient, and enjoyable cooking experience.

Certifications & Training

Walmart USA Advanced Software Engineering Virtual Experience Program
Advanced Software Engineer
September 2024
- Completed the Advanced Software Engineering Job Simulation, tackling complex technical projects across various Walmart teams.
- Developed an optimized heap data structure in Java for Walmart's shipping department, demonstrating advanced problem-solving and algorithmic proficiency.
- Designed a UML class diagram for a data processor, accounting for multiple operating modes and database connections.
- Created an Entity Relationship Diagram (ERD) to design a comprehensive database for Walmart's pet department, aligning with all specified requirements.

Goldman Sachs Software Engineering Virtual Experience Program
Governance Analyst
September 2024
- Completed a job simulation as a governance analyst, focusing on IT security assessments and proposing security enhancements.
- Identified and highlighted the risks of using an outdated password hashing algorithm by successfully cracking passwords with Hashcat.
- Composed a memo recommending security improvements, including increasing minimum password length and implementing a robust hashing algorithm to strengthen password protection.

ADDITIONAL

Technical Skills: Data Structures, Algorithms, Operating Systems, Python, C++, C, CSS, HTML, Java, JavaScript, R
Languages: Fluent in English and Mandarin Chinese
Portfolio: https://github.com/0Boots/Portfolio